

## CHAPTER 4

### POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE TENNESSEE WESTERN VALLEY (BEECH RIVER) WATERSHED

#### 4.1 Background.

#### 4.2. Characterization of HUC-10 Subwatersheds

4.2.A. 0604000101 (Tennessee River)

4.2.B. 0604000102 (Snake Creek)

4.2.C. 0604000103 (Horse Creek)

4.2.D. 0604000104 (White Oak Creek)

4.2.E. 0604000105 (Indian Creek)

4.2.F. 0604000106 (Hardin Creek)

4.2.G. 0604000107 (Tennessee River)

4.2.H. 0604000108 (Beech River)

4.2.I. 0604000109 (Tennessee River)

4.2.J. 0604000110 (Cub Creek)

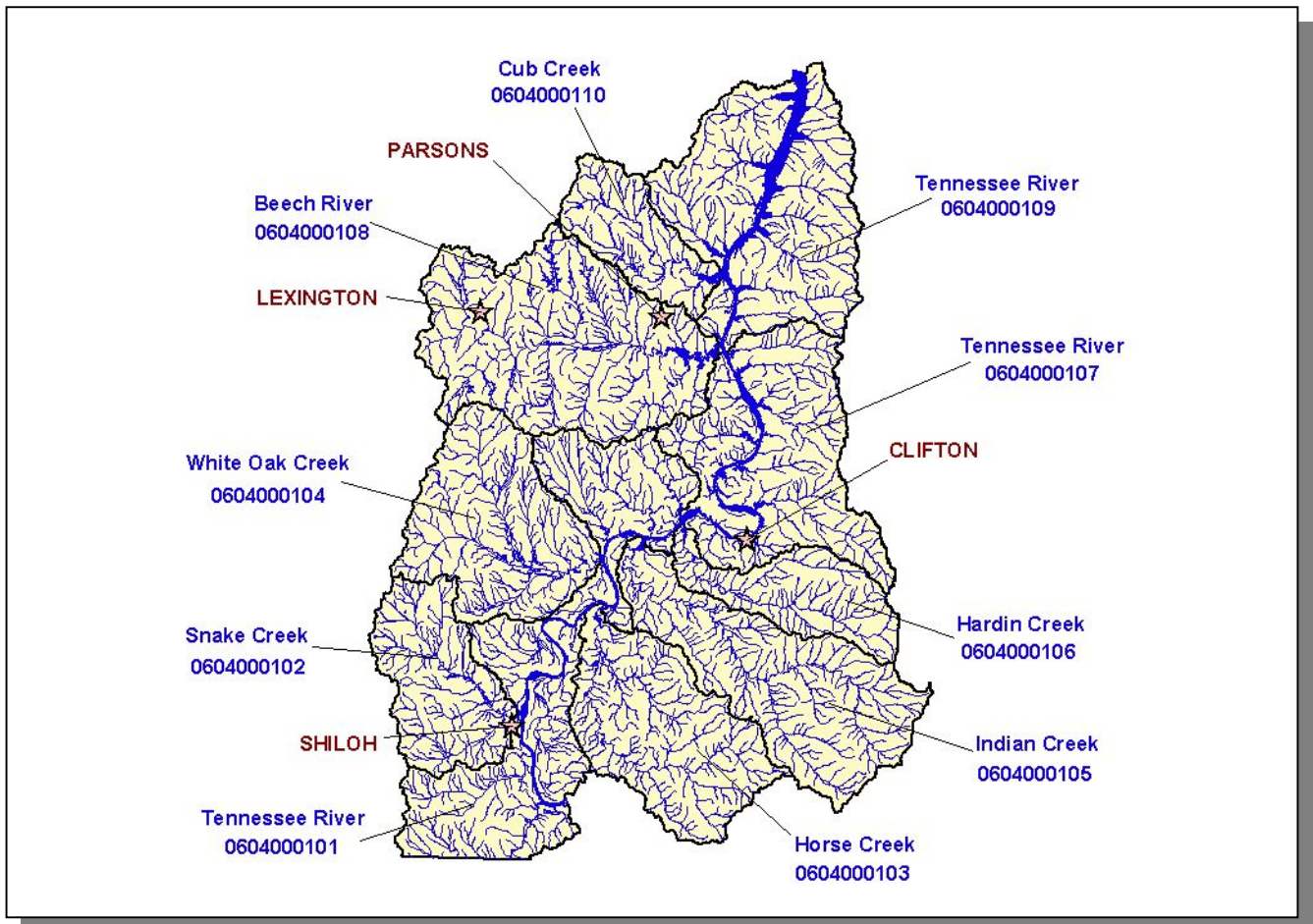
**4.1. BACKGROUND.** This chapter is organized by HUC-10 subwatershed, and the description of each subwatershed is divided into four parts:

- i. General description of the subwatershed
- ii. Description of point source contributions
- ii.a. Description of facilities discharging to water bodies listed on the 2002 303(d) list
- iii. Description of nonpoint source contributions

The Tennessee portion of the Tennessee Western Valley (Beech River) Watershed (HUC 06040001) has been delineated into ten HUC 10-digit subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.



**Figure 4-1. The Tennessee Portion of the Tennessee Western Valley (Beech River) Watershed is Composed of Ten USGS-Delineated Subwatersheds (10-Digit Subwatersheds). Locations of Clifton, Lexington, Parsons, and Shiloh are shown for reference.**

**4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS.** The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee Western Valley (Beech River) Watershed.

HUC-10	HUC-12	
0604000101	060400010101 (Tennessee River)	060400010105 (Doe Creek)
	060400010102 (Chambers Creek)	060400010106 (Stewman Creek)
	060400010103 (Lick Creek)	060400010107 (Turnbo Creek)
	060400010104 (Tennessee River)	
		060400010203 (Owl Creek)
0604000102	060400010201 (Upper Snake Creek)	
	060400010202 (Lower Snake Creek)	
0604000103	060400010301 (Upper Horse Creek)	060400010303 (Lower Horse Creek)
	060400010302 (Holland Creek)	
0604000104	060400010401 (Little White Oak Creek)	060400010403 (White Oak Creek)
	060400010402 (Middleton Creek)	
0604000105	060400010501 (Indian Creek)	060400010504 (Indian Creek)
	060400010502 (Indian Creek)	060400010505 (Indian Creek)
	060400010503 (Weatherford Creek)	
0604000106	060400010601 (Upper Hardin Creek)	060400010603 (Lower Hardin Creek)
	060400010602 (Middle Hardin Creek)	
0604000107	060400010701 (Tennessee River)	060400010703 (Tennessee River)
	060400010702 (Beech Creek)	060400010704 (Tennessee River)
0604000108	060400010801 (Beech River)	060400010805 (Big Creek)
	060400010802 (Piney Creek)	060400010806 (Beech River)
	060400010803 (Beech River)	060400010807 Beech River)
	060400010804 (Beech River)	
0604000109	060400010901 (Tennessee River)	060400010904 (Tennessee River)
	060400010902 (Tennessee River)	060400010905 (Tennessee River)
	060400010903 (Lick Creek)	060400010906 (Blue Creek)
0604000110	060400011001 (Cub Creek)	060400011002 (Sulpher Fork Cub Creek)

**Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages.** NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.